

AMENDMENTS TO THE CLAIMS

1. (Cancelled)
2. (Cancelled)
3. (Cancelled)
4. (Cancelled)
5. (Cancelled)
6. (Cancelled)
7. (Cancelled)
8. (Cancelled)
9. (Cancelled)
10. (Cancelled)
11. (Cancelled)
12. (Cancelled)

13. (Cancelled)

14. (Cancelled)

15. (Cancelled)

16. (Cancelled)

17. (Cancelled)

18. (Cancelled)

19. (Cancelled)

20. (Currently Amended) A process for coating of substrates comprising:

inserting a substrate into a process chamber;

dehydrating said substrate in the process chamber prior to reacting the silane with the substrate;

pre-heating a vaporization chamber to a first temperature with a vaporization chamber heater;

pre-determining a first volume of liquid silane to be used for the process;

removing the first volume of liquid silane from a silane liquid reservoir;

supplying the first volume of liquid silane to the heated vaporization chamber, wherein said heated vaporization chamber is fluidically coupled to said process chamber by a passageway open continuously while said first volume of liquid silane is supplied to said heated vaporization chamber;

vaporizing said the first volume of said first chemical silane, wherein the vapor of said first chemical silane enters said process chamber through the open passageway, whereby the vapor of said first chemical reacts with the substrate to create a layer.

~~supplying a first chemical liquid silane to a heated vaporization chamber;~~
~~vaporizing said first liquid silane; and~~
~~supplying the vapor of said first liquid silane to a said process chamber, whereby said vapor of~~
~~said first liquid silane reacts with the substrate to create a layer, after dehydrating said substrate.~~

21. (Cancelled)

22. (Cancelled)

23. (Previously presented) The process of claim 21, wherein said first liquid silane reservoir is a chemical manufacturer's source bottle.

24. (Cancelled)

25. (Previously presented) The process of claim 20, wherein said dehydrating a substrate comprises:
inserting said substrate into said process chamber;
evacuating said chamber to a first pressure;
inputting a first gas into said process chamber after evacuating said chamber to a first pressure.

26. (Original) The process of claim 25 wherein said first gas is an inert gas.

27. (Original) The process of claim 26 wherein said inert gas is nitrogen.

28. (Original) The process of claim 25 wherein said first gas is heated.

29. (Original) The process of claim 25 further comprising re-evacuating said process chamber subsequent to said inputting a first gas into said process chamber.
30. (Original) The process of claim 29 wherein said re-evacuating said process chamber evacuates said process chamber to a second pressure.
31. (Original) The process of claim 30 wherein said second pressure is lower than said first pressure.
32. (Original) The process of claim 20 further comprising:
- supplying a second chemical to a heated vaporization chamber;
 - vaporizing said second chemical; and
 - supplying the vapor of said second chemical to said process chamber.
33. (Currently amended) The process of claim 20 wherein said vaporizing said first liquid silane occurs in a first vaporization chamber.
34. (Previously presented) The process of claim 33 wherein said vaporizing said first liquid silane comprises heating said first liquid silane.
35. (Previously presented) The process of claim 33 wherein said vaporizing said first liquid silane comprises exposing said first liquid silane to reduced pressure.
36. (Previously presented) The process of claim 34 wherein said vaporizing said first liquid silane further comprises exposing said first liquid silane to reduced pressure.
37. (Previously presented) The process of claim 32 wherein said vaporizing said first liquid silane occurs in a first vaporization chamber.

38. (Original) The process of claim 37 wherein said vaporizing said second chemical occurs in said first vaporization chamber.

39. (Previously presented) The process of claim 38 wherein said vaporizing said first liquid silane and said vaporizing said second chemical occur relatively simultaneously.

40. (Cancelled)

41. (Cancelled)

42. (Cancelled)

43. (Cancelled)

44. (Cancelled)

45. (Cancelled)

46. (Cancelled)

47. (Cancelled)

48. (Cancelled)

49. (Cancelled)

50. (Cancelled)